# Test Report
## Consistency test

| | |
|---|---|
| **Project Name** | Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division |
| **Client** | The Executive Engineer, Yelahanka Division, BBMP |
| **Job No** | QCDC/BBMP/YNK/PMC-04/2019-2020 |
| **Mix Type** | PCC(1:4:8) |
| **Contractor** | Sri. Sridhar Y R |
| **Test Method** | IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V. |
| **Material** | Cement |
| **Sample No** | 1 |
| **Sample Collected Date** | 26-Apr-2019 |
| **Test Date** | 5-May-2019 |

| Sl. No. | Description | Trial 1 | Trial 2 | Trial 3 | Trial 4 | Trial 4 |
|---|---|---|---|---|---|---|
| 1 | Weight of Cement | 400 | 400 | 400 | 400 | 400 |
| 2 | Percentage of water added (%) | 27 | 28.5 | 29.5 | 30 | 30.5 |
| 3 | Weight of Water (gm) | 108 | 114 | 118 | 120 | 122 |
| 4 | Initial Reading of Plunger (mm) | 40 | 40 | 40 | 40 | 40 |
| 5 | Difference (mm) | 22 | 20 | 10 | 7.5 | 5.5 |

**Results:** Standard Consistency of Cement: 30.50%

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Qualiex Civil Design & Consultancy**

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**Authorised Signature**

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**Test Report**

**Fineness test**

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| **Client** | The Executive Engineer, Yelahanka Division, BBMP |
| **Job No** | QCDC/BBMP/YNK/PMC-04/2019-2020 |
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| **Material** | Cement |
| **Sample No** | 1 |
| **Sample Collected Date** | 26-Apr-2019 |
| **Test Date** | 5-May-2019 |

| Sl. No. | Determination | Trial 1 | Trial 2 |
|---|---|---|---|
| 1 | Weight of Cement before sieve (gm) | 100 | 100 |
| 2 | Weight of residue retained on 90um sieve (gm) | 2.9 | 2.85 |
| 3 | Percentage retained (%) | 2.9 | 2.85 |
| 4 | Average Percentage retained (%) | 2.875 | |

**Results:** Residue of cement is: 2.9%

**Comments:** Maximum allowable residue by mass for ordinary portlad cement is 10%

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Project Management Services

## Test Report
## Compressive strength test

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|---|---|
| **Project Name** | Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division |
| **Client** | The Executive Engineer, Yelahanka Division, BBMP |
| **Job No** | QCDC/BBMP/YNK/PMC-04/2019-2020 |
| **Mix Type** | PCC(1:4:8) |
| **Contractor** | Sri. Sridhar Y R |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Material** | Cement |
| **Sample No** | 1 |
| **Sample Collected Date** | 26-Apr-2019 |
| **Test Date** | 3-May-2019 |

| Cube | Cement Grade | Age at Test (Days) | Slump (mm) | Weight (kg) | Dimension (LxWxH) | Density (kg/m3) | Max. Load (KN) | Area (mm2) | Compressive Strength (N/mm2) | Average Sample (n/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43 | 7 | - | 0.845 | 70.6x70.6 x70.6 | 2302.0 | 182 | 4984 | 36.51 | 36.81 |
| 2 | 43 | 7 | - | 0.82 | 70.6x70.6 x70.6 | 2358 | 185 | 4984 | 37.12 | |

**Results**: 7-days Compressive strength of cement is 36.81N/mm$^2$

**Comments**: 7-days Compressive strength of cement should not be less than 33 N/mm$^2$

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